Weatherford	WELDING JHA		Prepared By:	Approval
			Technical Advisory Committee	OEP Approval Board
Document Number	**Document Classification**	**Document Level**	**Revision NO.**	**Issue Date**
TT-TRS-OEPS-L4-05.01	Controlled	L5	001	21 July 2016

Hazard / Risk Identification

Does the operation involve:

Bad Weather	☒		
Ballistics	☐		
Bulk Fuels / Fuel Transfer	☐		
Bulk Liquids	☐		
Chemicals	☐		
Cold / Hot Equipment	☒		
Communication Problem	☐		
Confined Space	☐		
Dropped Objects	☒		
Electrical Equipment	☒		
Energy Isolation / Lock Out Tag Out	☒		
Equipment at Height	☒		
Explosives	☐		
Hydrogen Sulphide	☐		
Lifting Equipment	☒		
Lithium Batteries	☐		
Manual Handling	☒		
Mast Unit / Crane Ops	☐		
Moving Objects	☐		
Noise	☐		
Poor Light / Restricted Space	☐		
Potential Environmental Spill / Release	☐		
Pressure and PCE	☐		
Radiation	☐		
Restricted Line of Sight	☒		
Rig Up / Rig Down Equipment	☒		
Simultaneous Ops.	☒		
Slip / Trip / Fall Potential	☒		
Vehicles	☐		
Working at Height	☐		

What mechanisms of injuries exist?

Caught In	☐	Ignition	☒
Caught Between	☒	Inhalation	☒
Caught On	☐	Overexertion	☒
Cuts / Lacerations	☒	Slip / Trip / Fall	☒
Explosion	☒	Struck Against	☐
Exposure to Heat / Cold	☒	Struck By	☒

Hazard / Risk Management

PRIOR TO STARTING A TASK, ALL TEAM MEMBERS MUST BE ABLE TO ANSWER YES TO THE FOLLOWING

Significant Hazard Identified?	☐
Hazard Controls Identified?	☐
Responsible Persons for Controls Identified?	☐
Pre-Requisite Controls in Place?	☐
Lines of Communication in Place?	☐
Chain of Command Clear?	☐
Understand Operation?	☐
Understand Role in Operation?	☐
Changes must be Communicated to All?	☐
Comfortable with STOPPING the Job?	☐
Using the Correct Tools for the Job?	☐
Using the Correct PPE?	☐

TEAM MEMBERS

1	Sujesh	7	
2	Hanish	8	
3		9	
4		10	
5		11	
6		12	

NOTES / COMMENTS:

Redressing 6x7" Washover shoe → Sujesh
Grinding down
Note: All WO packages and relevant procedures are in work place

TAKE 5 PROMPT REMINDER

REMEMBER TO REVIEW CARD:
If conditions change

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WELDING JHA

Before starting the job:
Take 5

Before starting a task, I will always take time to complete a TAKE 5 Assessment, I will:

1. STOP – Engage brain before you act.
2. LOOK – Identify any hazards.
3. ASSESS – What damage could those hazards cause?
4. MANAGE – Implement controls, tell others.
5. SAFELY – Complete the task.

If I am unable to complete any of the above, I MUST NOT proceed and will immediately speak with my supervisor for further instructions. Before starting a task, I will always remember that I am the last person that can prevent an unsafe act; I will always take time to identify what can hurt me and MUST not continue until I am sure that it can be done safely

TOOLBOX OR JHA:	TOOLBOX MEETING ☐ JHA ☐
WORKSITE:	Welding Shop
LOCATION:	Mina Abdullah
WFT LEADER:	Samer
SUPERVISOR:	Syed Moulali
OPERATION:	FRE
DATE:	JUL 15th 2020
TIME:	08:00 AM
WIND DIRECTION:	Normal
MUSTER POINT(S):	main

EMERGENCY CONTACT NUMBERS (24 HRS)

WEATHERFORD:	
CLIENT:	
DRILLING:	

Reviewed by (initial):		Action Required:	
WFT Leader:		Is a revision to the procedure required?	
Supervisor:			
Location:		YES	NO
Proceed with operation?		YES	NO

Fall from Height	☐	At regular intervals	

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WELDING JHA

USE THIS SECTION TO HIGHLIGHT AND SUMMARIZE THE SIGNIFICANT HAZARDS IDENTIFIED AND THE SUBSEQUENT CONTROLS REQUIRED

Procedure Reference: | Permit to Work Number: | Risk Assessment Reference:

Job to be Assessed:

TASK	HAZARD*	CONTROLS	RESPONSIBILITIES	IN PLACE	
The Steps Involved in the Operation	Identifying the Hazard	Preventing the Hazard	Who is Taking Action?	YES	NO
Pre job check for refurbishing of equipment	◊ Damage to heat sensitive material caused by welding. ◊ Internal parts of item being severed, cut, burnt or damaged while cutting with torch.	◊ Establish scope of work with applicable ◊ Product Line Representative. ◊ Verify location of wiring and essential elements of equipment with potential for damage caused by welding process.	Sujesh / Jovic		
Setting up of equipment for cutting/welding	◊ Fire due to ignition of flammable gases under pressure. ◊ Explosion due to ignition of buildup flammable gases in an enclosed space. ◊ Backfire caused by absence of o-rings causing pre-mixing of oxygen and fuel gases or damaged tapered seats of the cutting tip. ◊ Foot injury due to tanks falling on feet. ◊ Fatality, struck by, struck against by high pressure tanks propelled by air escaping at high velocity. ◊ Fire caused by ignition of combustible items in work area.	◊ Always keep valve protection caps in place whenever cylinders are moved or in storage, whether cylinders are full or empty ◊ Mark empty cylinders “empty” or MT ◊ Close valves completely on empty cylinders. ◊ Do not use a cylinder that does not have a gas identification label attached to it. ◊ Close valves completely prior to regulator removal. ◊ Always have a fire extinguisher available. ◊ Do not strike, drop, or apply heat to any cylinder or valve. ◊ Always open the cylinder valve slowly and carefully. ◊ Inspect the cone end, coupling nut, and torch heads for oil, grease, or damaged parts. ◊ Also inspect the cone end for missing or damaged O-rings. ◊ If tapered seats of the cutting tips are damaged do not use the tip. ◊ Secure tanks properly using a chain strapping tanks onto a cylinder cart, wall, work bench or post or other suitable structure. ◊ Always keep cylinders secured properly in a vertical position. ◊ If you experience a backfire immediately turn off the pre-heat oxygen control valve on the cutting attachment. Then turn off the torch handle fuel valve. Allow the cutting attachment to cool before attempting to relight. If the			

		backfire recurs have the apparatus checked by a qualified repair technician before using the apparatus again. ◊ Open cylinder valves only slightly (if valve is opened too much the cylinder could tip over. Crack the cylinder valve in well ventilated areas only ◊ Never stand, nor have anyone stand In front or behind a regulator when opening the cylinder valve. Always stand so that the cylinder is between you and the regulator. ◊ Strap tanks to solid rooted structure before beginning work. ◊ Remove all combustible material from work area, flammables etc. ◊ Work area must have fireproof floor. ◊ Work benches, tables used during welding, cutting, heating must have fire proof tops.			
Cutting/Welding	◊ Fire caused by flying sparks igniting combustible items. ◊ Burns from welder skin contact with welding flame or sparks or ignition of clothing. ◊ Arc eye caused by exposure to UV light rays. ◊ Falling objects (items not secured properly ◊ Electrical shock causing serious injury or fatality.	◊ Use metal sheets or fire resistant curtains as fire barriers. ◊ The floor should be concrete or another fire resistant material. Cracks in the floor should be filled to prevent sparks and hot metal from entering. ◊ When work cannot be moved to a firesafe area then the area should be made safe by removing or protecting combustibles from ignition sources. ◊ In certain welding situations it may be necessary to ask someone to watch for fires that could go undetected until the welder has finished the job.(FIRE WATCH) ◊ Never open and light the fuel gas torch and oxygen at the same time. ◊ For body protection a pair of fire retardant long sleeved coveralls without cuffs is a good choice. Always avoid clothing with tears, snags, rips, or worn spots as these are easily ignited by sparks. The sleeves and collars should be kept buttoned. ◊ The hands should be protected with leather gauntlet gloves. ◊ A pair of high top leather shoes, preferably safety shoes, is good protection for the feet. ◊ If low shoes are worn the ankles should be protected by fire resistant leggings. ◊ Eyes should be protected by transparent goggles if the person wears prescription glasses or safety glasses if not. ◊ Never use a helmet if the filter plate or cover lens is cracked or broken. A flame-proof skull cap to protect the hair and head as well as			

		hearing protection in noisy situations is recommended. ◊ A welding helmet or hand shield with filter plate and cover plate is mandatory for eye protection from the harmful rays of the arc. The filter plate should be at least shade for general welding up to 200 amps. However, certain operations such as carbon arc welding and higher current welding operations require darker shades. ◊ Welding blinds must be used at all times when welding to prevent other personnel from being exposed to arc rays. ◊ Ensure equipment being cut or welded is properly secured before beginning operations. ◊ Be sure the welder is properly installed and grounded. ◊ Do not weld near wet surfaces. ◊ Ensure all cables and plugs are not damaged and properly insulated.			
Grinding	◊ Material falling on personnel feet due to poor bracing. ◊ Injuries caused by broken disc, flying debris. ◊ Damage to eyes due to flying sparks. ◊ Electrical shock ◊ Exposure to noise over 85DBs.Dust	◊ Items being welded must be properly braced/clamped/or positioned before welding. Wearing steel toe boots are a mandatory requirement. ◊ Inspect grinding disc before mounting Check for expiry dates ◊ Review grinder chart to check maximum diameter of wheel used in relation to RPM of grinder which can be mounted. ◊ Ensure grinding disc is properly mounted. ◊ Grinding wheel should be properly mounted and protected by guards (enclosing the maximum peripheral area of the wheel leaving free only that portion of the wheel which is strictly necessary for the operation. ◊ Operators must wear safety glasses and ◊ face shields ◊ Inspect electrical cords for exposed wires & ensure unit properly grounded. ◊ Wear ear plugs at all times when grinding. ◊ Wear dust masks when grinding.			
Clean up of work area.	◊ Slips, Trips & Falls ◊ Burns from holding hot metal scraps ◊ Cuts and bruises from holding sharp metal scraps ◊ Fire caused by hot metal igniting combustibles.	◊ Carefully remove all waste material and dispose of in an environmentally friendly manner on dedicated container. ◊ Use leather gloves or welding gloves to pick up scrap material. ◊ Have fire extinguisher available. ◊ Pay attention to surroundings.			

DEBRIEF ☐	SHIFT HANDOVER ☐		
Based on team debrief, can this task be improved?	Yes ☐	No ☐	
Explain:			

Name:		Name:		Name:		Name:		Name:	
Signature:		Signature:		Signature:		Signature:		Signature:	
Name:		Name:		Name:		Name:		Name:	
Signature:		Signature:		Signature:		Signature:		Signature:	

** Any or all applicable hazard relating to health, safety, the environment and/or service quality should be noted and assessed.*

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